

#A734
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CLAIMS

1. Use as an anti-cancer agent of a mutant herpes simplex virus type HSV-1 wherein the mutant virus is a mutant strain 17 virus and comprises a modification in the γ 34.5 gene in the long repeat region (R_L) such that the γ 34.5 gene is non-functional.
2. Use of a mutant herpes simplex virus according to claim 1 wherein the virus is substantially non-neurovirulent.
3. Use of a mutant herpes simplex virus according to any preceding claim wherein the modification to the virus is made within the Bam H1 s restriction fragment of the R_L terminal repeat.
4. Use of a mutant herpes simplex virus according to claim 3 wherein the modification is a deletion of from 0.1 to 3kb, in particular of from 0.7 to 2.5 kb.
5. Use of a mutant herpes simplex virus according to claim 4 wherein the deletion is a 759 bp deletion in the γ 34.5 gene.
6. Use of a mutant herpes simplex virus according to any of the preceding claims as an anti-brain tumour agent.

AMENDED SHEET

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18. A method of treating cancer in mammals, in particular in humans according to claim 16 by administering a pharmaceutical formulation parenterally into the blood stream feeding the tumour.

19. A method of treating cancer in mammals, in particular in humans, by administering a pharmaceutical formulation comprising a mutant herpes simplex virus type HSV-1 wherein the mutant virus comprises a modification in the $\gamma 34.5$ gene in the long repeat region (R_L) such that the $\gamma 34.5$ gene is non-functional; the cancer being a cancer of the central nervous system including the brain which is a secondary metastatic cancer tumour.

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